

IN THE CLAIMS:

Please AMEND claims 1-5 and ADD new claims 6-20 in accordance with the following:

1. (currently amended) A method of opening a tray of an optical disc changer that includes a plurality of disc mounting recesses, on each of which a disc ~~can~~may be loaded, the method comprising:

moving two disc mounting recesses to an exposure position so that discs can be simultaneously mounted on the recesses when the tray is opened if a tray open command ~~for mounting to mount~~ two discs simultaneously is input by a user, ~~moving two disc mounting recesses to a position that is exposed so that discs can be simultaneously mounted on the recesses when the tray is opened;~~ and
opening the tray.

2. (currently amended) The method of claim 1, further comprising:
~~if the tray open command is applied,~~ searching for two successive, empty disc mounting recesses if the tray open command is applied; and

selecting the two successive, empty disc mounting recesses when empty disc mounting recesses~~they~~ are found.

3. (currently amended) The method of claim 2, further comprising: ~~if two successive, empty disc mounting recesses are not found,~~ selecting two successive disc mounting recesses which are not both empty if two successive, empty disc mounting recesses are not found.

4. (currently amended) A method of reproducing data on discs in an optical disc changer which is suitable for a tray open mode that enables two discs to be mounted simultaneously, the method comprising:

determining whether discs are mounted on pre-selected disc mounting recesses;
reproducing a first disc having higher priority when ~~it is determined that a condition in which~~ discs are mounted on the selected two disc mounting recesses is determined to be in effect; and
reproducing a second disc when the reproduction of the first disc is completed.

5. (currently amended) The method of claim 4, wherein if only one of the disc mounting recesses has a disc mounted ~~on it~~thereon, the mounted disc only is reproduced.

6. (new) An optical disc changer tray opening method, comprising:
inputting a tray open command to initiate an opening of a tray of the disc changer, the tray including multiple disc mounting recesses;
determining whether the tray open command initiates a multiple disc mounting mode;
opening the tray to expose multiple disc mounting recesses if the command initiates the multiple disc mounting mode.
7. (new) The method according to claim 6, wherein the opening comprises rotating the tray to move the multiple disc mounting recesses to an exposure position.
8. (new) The method according to claim 6, further comprising searching for multiple consecutive, empty disc mounting recesses if the command initiates the multiple disc mounting mode.
9. (new) The method according to claim 8, wherein, when multiple successive, empty disc mounting recesses are found, the method further comprises:
selecting the multiple disc mounting recesses; and
recording numbers of the selected disc mounting recesses.
10. (new) The method according to claim 9, wherein the method further comprises moving the multiple selected disc mounting recesses to a loading position.
11. (new) The method according to claim 10, wherein the moving comprises rotating a roulette wheel, in which the disc mounting recesses are defined, so that a center between the multiple selected disc mounting recesses is located at a center portion of an area to be exposed.
12. (new) The method according to claim 11, further comprising:
detecting numbers of the disc mounting recesses during the rotating of the roulette; and
determining an amount of rotation that has occurred based on the detection of the numbers of the disc mounting recesses.
13. (new) The method according to claim 6, wherein if successive and empty disc mounting recesses are not found, but two successive disc mounting recesses are found, the method further comprises:
selecting the two successive disc mounting recesses; and
recording numbers of the recesses.

14. (new) The method according to claim 6, wherein the multiple discs include first and second discs and the multiple disc recesses include first and second disc recesses in a roulette that are detected by the optical disc changer and wherein the method further comprises:

detecting a condition in which the second disc is mounted on the disc mounting recess that is detected earlier during a rotation of the roulette; and

detecting a condition in which the first disc is mounted on the disc mounting recess that is detected later than the earlier detected recess.

15. (new) An optical disc changer, comprising:

a rotatable roulette having a plurality of disc mounting recesses;

a detection sensor to recognize the disc mounting recesses and determines whether a disc is mounted on each of them; and

a microprocessor to control the roulette motor according to tray open/close commands inputted by a user, wherein when the user inputs a multiple disc mounting command, the microprocessor responsively controls the roulette motor based on information received from the detection sensor so that multiple disc mounting recesses are moved to loading/unloading positions.

16. (new) The changer according to claim 15, wherein the detection sensor recognizes the disc mounting recesses that pass by the sensor when the roulette rotates, and determines whether discs are mounted on the corresponding disc mounting recesses.

17. (new) The changer according to claim 16, wherein results of the recognition and detection of the detection sensor is provided to the microprocessor.

18. (new) A method of reproducing data on discs in an optical disc changer in which multiple discs are mounted on a roulette wheel of the changer, priority is established among the disks, and a multiple disc mounting mode has been initiated, the method comprising:

determining whether the discs are mounted on the disc mounting recesses which are selected when the multiple disc mounting mode has been initiated;

reproducing a first disc having high priority, if discs are mounted on the selected disc mounting recesses; and

automatically reproducing a second high priority disc when the reproduction of the first disc is completed, wherein if one of the two disc mounting recesses does not have a disc mounted thereon then only the mounted disc is reproduced.

19. (new) An optical disc changer tray opening method, comprising:
inputting a tray open command to initiate an opening of a tray of the disc changer, the tray including multiple disc mounting recesses;
determining whether the tray open command initiates a multiple disc mounting mode or a single disc mounting mode;
opening the tray to provide access to the disc mounting recesses; and
exposing multiple disc mounting recesses if the command initiates the multiple disc mounting mode or exposing one multiple disc mounting recess if the tray open command initiates a single disc mounting mode.

20. (new) An optical disc changer tray opening method, comprising:
inputting a tray open command to initiate an opening of a tray of the disc changer, the tray including multiple disc mounting recesses;
determining whether the tray open command initiates a multiple disc mounting mode or a single disc mounting mode;
opening the tray to expose multiple disc mounting recesses if the command initiates the multiple disc mounting mode or to expose one multiple disc mounting recess if the tray open command initiates a single disc mounting mode.